ConocoPhillips
Pipe Line Company

E. St. Louis Terminal
3300 Mississippi Ave.
Cahokia, IL. 62206

Phone 618.337.6066
Fax 618.337.5430

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 26, 2006

Mr. Nabil Fayoumi
United States Environmental Protection Agency
Region V
Superfund Division
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604-3590

RE: Requested Copy of Subsurface Investigation Report for Rogers Cartage Site

Dear Mr. Fayoumi:

In response to our telephone conversation on Thursday, May 25th, ConocoPhillips hereby provides you with a copy of the Subsurface Investigation Report – Rogers Cartage Site prepared by ATC Associates, Inc. and dated April 18, 2005. The report summarizes subsurface investigations conducted in February 2005 to define horizontal limits to the previously identified PCB-impacted area on the southern portion of the East St. Louis Terminal.

Draft copies of a work plan and Health and Safety Plan for detailed delineation of the approximately 2.73 acre parcel identified as the "Rogers Cartage Site" were sent to you electronically on Friday, May 26th.

If you have any questions or comments about either submittal, please contact me at (618) 255-3190. I look forward to meeting with you to confer on the technical issues relating to this site and the path ahead.

Sincerely,

Eric S. Petersen, Site Manager
Risk Management & Remediation

Enclosure

ESP/esp

ASSOCIATES INC.

Subsurface Investigation Report
Rogers Cartage Site
3300 Mississippi Avenue
Cahokia, Illinois

ATC Project Number 30.75118.0504

Prepared for:

Mr. Eric Petersen
ConocoPhillips Company
P.O. Box 76
Roxana, Illinois 62084

April 18, 2005

TABLE OF CONTENTS

CONOCOPHILLIPS LETTER OF TRANSMITTAL ..... **i**

1.0 EXECUTIVE SUMMARY **1**

2.0 INTRODUCTION **1**
2.1 PURPOSE 1
2.2 SITE LOCATION 1
2.3 SITE HISTORY AND BACKGROUND 2

3.0 SITE CONDITIONS **2**
3.1 GEOLOGY 2
3.2 HYDROGEOLOGY 2

4.0 TECHNICAL DATA **3**
4.1 DRILLING AND SAMPLING 3
4.2 SOIL SAMPLE RESULTS 4

5.0 CONCLUSIONS **4**

ATTACHMENTS

Table 1 Summary of Soil Analytical Results
Figure 1 Site Location and Topography Map
Figure 2 Terminal Base Map
Figure 3 Rogers Cartage Site – Boring Location Map

Appendix A Soil Boring Logs
Appendix B Laboratory Analytical Reports
Appendix C Site Safety Plan

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Professionals

8233 Brentwood Industrial Drive
St. Louis, MO 63144
www.atcassociates.com
314-644-2500
Fax 314-644-4838

April 18, 2005 30.75118.0504 T-1

Mr. Eric Petersen
ConocoPhillips Company
P.O. Box 76
Roxana, Illinois 62084

Re: Subsurface Investigation Report
Rogers Cartage Site
3300 Mississippi Avenue
Cahokia, Illinois

Dear Mr. Petersen:

Please find enclosed a copy of the Subsurface Investigation Report for the Rogers Cartage Site (Site). This report summarizes the subsurface assessment conducted to identify the horizontal extent of the contamination of polychlorinated biphenyls (PCBs) at the Site on February 14 and 15, 2005. The Rogers Cartage Site is located on the southernmost portion of the ConocoPhillips East St. Louis Terminal. The work was conducted in general accordance with our Work Plan dated February 3, 2005.

ATC appreciates the opportunity to be of service to ConocoPhillips. If you have questions regarding the information in this report or if we can be of further assistance, please do not hesitate to contact ATC at (314) 644-2500.

Sincerely,

ATC ASSOCIATES INC.

William W. Kipp
Project Engineer

Patrick L. King, L.P.G.
Senior Project Manager

SLR/WWK/PLK:slr/wwk

Copies Submitted: Three

1.0 EXECUTIVE SUMMARY

- Located eleven previous borings (IMP1-1 through IMP1-5, Drain-1 through Drain-3, and IMP2-1 through IMP2-3) drilled by others using GPS coordinates and field reconnaissance.

- Advanced nineteen new soil borings (SB-1 through SB-19) to a depth of approximately 10 feet below land surface (bls) in and around the area of investigation in a pattern determined by COP.

- One soil boring (IMP1-1A) was advanced to a depth of approximately 6 feet bls in a location that was previously sampled by others and known to contain polychlorinated biphenyls (PCBs) to help verify the zone of contamination, guide sample collection by visual comparison, and calibrate field test kits.

- Soil samples from the twenty soil borings were collected continuously. The sample intervals yielding the most evidence for chemical/solvent contamination were analyzed using a field test kit.

- To confirm the field test kit results, twelve (12) soil samples were transferred to a fixed analytical testing laboratory for further analysis.

- GPS coordinates were recorded for all soil boring locations (previous and new) for future locating purposes.

2.0 INTRODUCTION

The Rogers Cartage Site (Site) is located on the west side of Mississippi Avenue in Cahokia, St. Clair County, Illinois. The Site is located on the southern portion of the ConocoPhillips Company (COP) East St. Louis Terminal. The work area in question was reportedly leased to others in the 1960's.

2.1 PURPOSE

The purpose of this subsurface investigation was to identify an unimpacted horizontal boundary zone surrounding known PCB contamination within the upper 10 feet of soil on the Rogers Cartage Site. This project builds on a previous investigation conducted by others that identified the presence of PCB contamination at certain locations within the Site.

2.2 SITE LOCATION

The Rogers Cartage Site is located on the southern portion of the COP East St. Louis Terminal located at 3300 Mississippi Avenue in Cahokia, St. Clair County, Illinois. A Site Vicinity Map illustrating the topography of the area is included as Figure 1. The Site is surrounded by industrial and commercial facilities. A Terminal Base Map depicting the East St. Louis Terminal is included as Figure 2. The Terminal is owned by ConocoPhillips and is currently operated as a ConocoPhillips pipeline terminal facility.

2.3 SITE HISTORY AND BACKGROUND

The area included in this assessment was leased to Rogers Cartage in the 1960's. Others reportedly performed a previous, limited scope PCB investigation at the Site in early 2004. Reportedly, the results indicated that PCBs were found on the site, but neither the horizontal nor the vertical extents of contamination were delineated.

3.0 SITE CONDITIONS

3.1 GEOLOGY

The facility is located in the floodplain of the Mississippi River. As such, the alluvial basin consists of fine grained depositional sequences resulting from normal river processes and flood events. The depositional environment consists of complex sequences of interbedded sands, silts, and clays. At the East St. Louis Terminal, the first 11 to 15 feet bls consists primarily of silts and clays whereas, below 11 to 15 feet the subsurface material is primarily sand.

Soil descriptions at the Site are depicted on the boring logs included in Appendix A. The descriptions of interbedded clays, silts, and sands are consistent with fluvial environments.

3.2 HYDROGEOLOGY

The facility is underlain by a two-layer hydrogeologic system. In the vicinity of the Terminal, this system consists of approximately 11 to 15 feet of interbedded alluvial silt, clay, and sand underlain by fine to medium grained sand. The Site is located approximately 2,000 feet east of the Mississippi River. As a result, groundwater at the Terminal, including the Site, is influenced by seasonal variations of the river stage. Based on groundwater elevation observations, it appears that during the rainy season the finer grained materials within the first 12 to 15 feet of the subsurface limit recharge to the lower hydrogeologic layer resulting in groundwater highs at the facility. During the dry season, groundwater elevation observations indicate a uniform groundwater surface elevation. During the low river stage periods, the groundwater of the lower hydrogeologic layer flows westward towards the river, whereas during the high river stage periods, the groundwater of the lower hydrogeologic layer flows southwestward towards the river, or southeastward during extreme river flooding conditions. Groundwater at the Terminal is also influenced by local recharge within facility impoundments including features such as tank berms, ponds, and low topographical areas. As a result, groundwater in the vicinity of the site may be influenced by these features located east and west of the Rogers Cartage Site or by the tank berm impoundments located north of the Rogers Cartage Site. Groundwater at the Terminal during February 2005 was approximately 10 feet below land surface (bls).

4.0 TECHNICAL DATA

Prior to the initiation of field activities, ATC contacted the State of Illinois utility locator service (JULIE) to locate underground utilities at the site in the vicinity of the Rogers Cartage Site. Additionally, ATC contacted terminal personnel to determine the location of terminal utilities, conduits, and pipe lines in the vicinity of the Rogers Cartage Site. ATC arranged a joint meeting with utility representatives contacted by JULIE and terminal personnel on the morning of the first day of drilling.

In addition, to minimize the risk of potential exposure to chemical and physical hazards associated with the subsurface investigation activities, ATC prepared a site-specific Health and Safety Plan to address hazards unique to the Rogers Cartage site.

4.1 DRILLING AND SAMPLING

On February 14 and 15, 2005 a total of twenty (20) soil borings (SB-1 through SB-19, and IMP1-1A) were advanced around the perimeter of the previous soil boring locations, refer to Figure 3 for boring locations. Borings locations were initially checked with a T-handle probe using hand pressure to reduce the potential for contact with underground utilities when drilling. The soil borings were then advanced to an approximate depth of 10 feet bls, with the exception of boring IMP1-1A which was advanced to approximately 6 feet bls. Borings were advanced with a direct push probe rig operated by MRK Environmental Drilling of Waterloo, Illinois. The borings were sampled on a continuous basis using three-foot stainless steel samplers and acetate liners.

An ATC Geologist was onsite during the investigation activities to oversee the drilling. Soil samples were collected on a continuous basis to the terminus of each boring. Soil was visually classified in accordance with the Unified Soil Classification System (USCS). Soil samples were inspected for staining, odors, and other indications of chemical impact. Soil samples were field screened for the presence of volatile organic vapors (VOVs) with a photoionization detector (PID). Geologic conditions as well as the PID field screening measurements were recorded on the soil boring logs provided in Appendix A.

The soil sample yielding the greatest evidence of chemical/solvent contamination in each boring was analyzed using a field test kit (results in Table 1). Based on field test kit results, 12 samples were sent to the fixed laboratory for further analysis. Soil samples were transferred into laboratory supplied sample containers and placed in an ice-filled cooler for subsequent analysis. The soil samples were submitted using standard chain-of-custody procedures to Severn Trent Laboratory (STL) in Pensacola, Florida and analyzed for PCBs using USEPA Method 8082.

Sampling equipment was decontaminated between borings using a non-phosphate solution and clear water rinse. Soil borings were backfilled with hydrated bentonite and capped at the surface to match existing surfaces.

Soil cuttings, decontamination water, and PPE generated during the installation of the soil borings were containerized in two 55-gallon steel drums that were temporarily stored on-site pending analytical results and disposal arrangements.

4.2 SOIL SAMPLE RESULTS

EnviroLogix PCB Field Test Kit Analysis

Soil with PCB impact causes a colorimetric change in the EnviroLogix PCB field test kit. This color change may then be compared to the calibrators set up for a given area of investigation. The standard calibrators of 1 part per million (ppm) and 10 ppm were used for this investigation. Therefore, results of the field test kits should indicate if a soil sample contained less than 1 ppm, between 1 and 10 ppm, or greater than 10 ppm of PCBs. The field test kits indicated 6 samples above 10 ppm, 1 sample between 1 ppm and 10 ppm, and 13 samples below 1 ppm. The field test kit results are summarized in Table 1. The manufacturer of the field test kits (EnviroLogix located in Portland, ME) concurred with ATC's recommendation for fixed analytical laboratory verification of field testing results. As such, twelve soil samples were sent to the analytical laboratory for PCB analysis from the Rogers Cartage Site.

Fixed Laboratory Analysis

Laboratory analytical results from STL are included in Appendix B, and a summary of the soil concentrations is included in Table 1. Laboratory analysis indicated that PCB concentrations in soil samples taken from ten of the twelve submitted soil samples were below guidelines contained in 40 CFR 761 Subpart N which indicates a cleanup level of 25 ppm for low occupancy areas. Two of the boring locations did contain results above guidelines; the soil sample from verification boring IMP 1-1A (twin to boring IMP 1-1) contained 2,400 ppm and the soil sample from location SB-5 contained 47 ppm.

5.0 CONCLUSIONS

Based on the STL laboratory analytical results, PCB impact above 40 CFR 761 Subpart N (25 ppm) was present at two boring locations; IMP 1-1A and SB-5. The two impacted borings are located in a north-south trend and appear to be surrounded by low level or non-detect borings. Although ATC did not review specific analytical results from the previous investigation, borings in the February 2005 investigation appear to provide horizontal limits to the PCB-impacted area. The results of this investigation appear to be conclusive enough to construct a remediation "exclusion zone". ATC is equipped to assist COP with additional horizontal and vertical delineation activities if deemed necessary in the future to evaluate remedial alternatives.

Regarding field test kit accuracy, analysis with field test kits and fixed laboratory analysis are in general agreement with two exceptions; field test kits indicated PCB impact above 10 ppm in SB-9 and SB-11. Soil from both locations was below 10 ppm according to STL laboratory analysis. This indicates a false positive in the field test kits. (A false positive is a field indication that a constituent is present that is disputed by fixed analytical laboratory results.) Some false positives are not surprising as, according to EnviroLogix, the field test kits are conservative and tend to error on the side of false positives by design. This is supported by the

fact that no false negatives were reported. (A false negative is a field indication that a constituent is not present but the fixed analytical laboratory indicates that it is present.)

By comparison, there were 10 corroborated results between the field test kits and the analytical laboratory and two (2) discrepancies. Therefore, according to this investigation, the field test kits are approximately 83 percent effective at locating elevated levels of PCB contamination. Equally important is the fact that no false negatives were identified during the investigation lending credibility to the value of the field test kits and method of investigation. ATC concludes that the field test kits and subsurface investigation conducted are appropriate and effective at helping to determine the presence or absence of PCB contamination.

TABLE 1

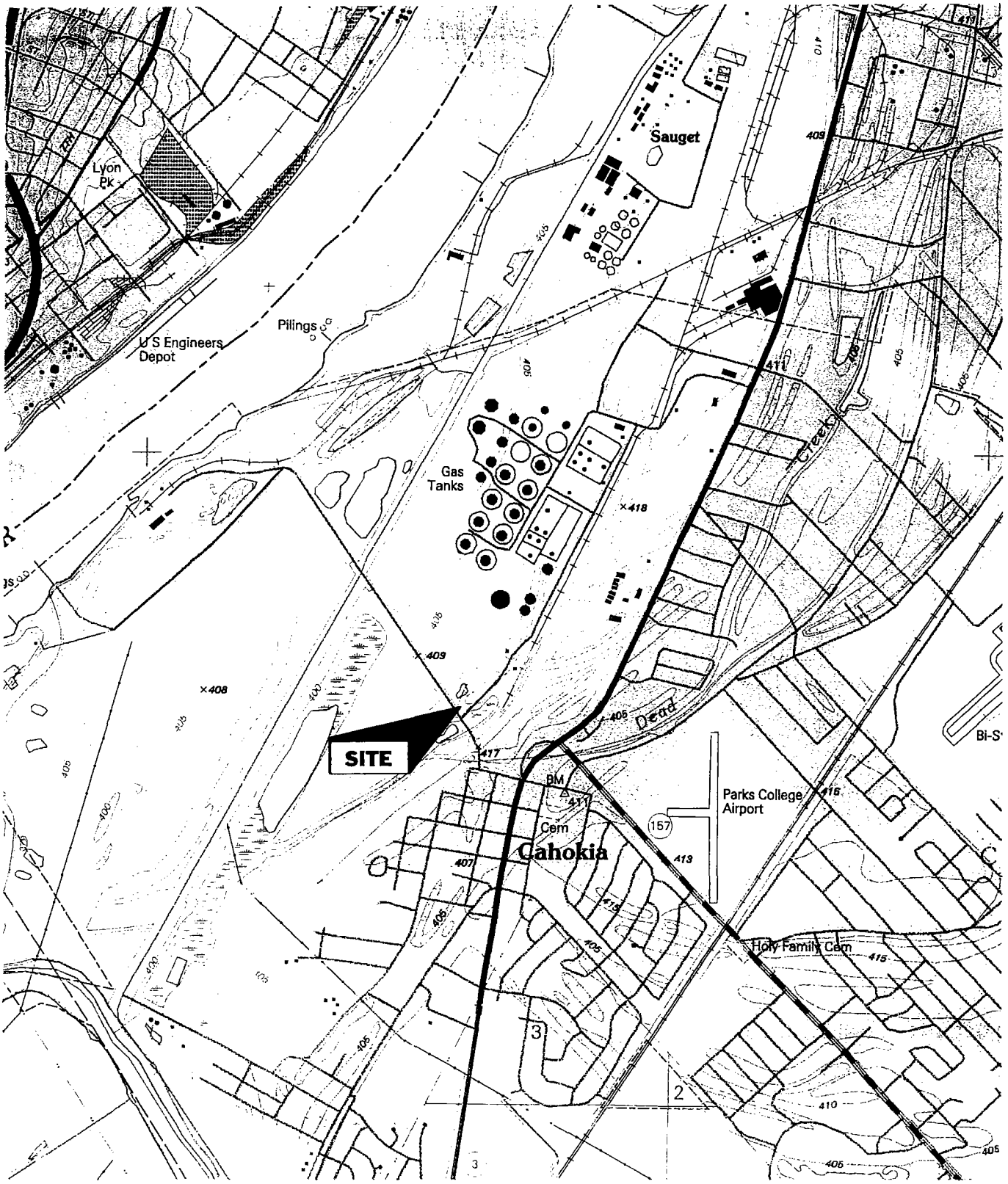
SUMMARY OF SOIL ANALYTICAL RESULTS
ROGERS CARTAGE SITE
CAHOKIA, ILLINOIS

Sample Name	Sample Interval	Date	Time	Field Test PCB Concentration (PPM)	Latitude	Longitude	Laboratory Analytical Results (mg/kg)						
							Aroclor PCB-1016	Aroclor PCB-1221	Aroclor PCB-1232	Aroclor PCB-1242	Aroclor PCB-1248	Aroclor PCB-1254	Aroclor PCB-1260
SB-1	(2-4)	02/14/05	1520	<1	38.57340	-90.19273	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
SB-2	(4-6)		1540	<1	38.57368	-90.19286	NA	NA	NA	NA	NA	NA	NA
SB-3	(8-10)		1555	<1	38.57378	-90.19288	NA	NA	NA	NA	NA	NA	NA
SB-4	(8-10)		1610	<1	38.57380	-90.19302	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
SB-5	(6-8)		1635	>10	38.57389	-90.19283	<0.47	<0.47	<0.47	<0.47	**47**	<0.47	<0.47
SB-6	(4-6)		1645	>1 and <10	38.57401	-90.19255	<0.110	<0.110	<0.110	<0.110	**1.7**	<0.110	<0.110
SB-7	(0-2)	02/15/05	0830	<1	38.57416	-90.19238	NA	NA	NA	NA	NA	NA	NA
SB-8	(4-6)		0845	<1	38.57442	-90.19253	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
SB-9	(2-4)	02/14/05	1150	>10	38.57469	-90.19263	<0.110	<0.110	<0.110	<0.110	**2.2**	<0.110	<0.110
SB-10	(4-6)		1230	>10	38.57456	-90.19291	NA	NA	NA	NA	NA	NA	NA
SB-11	(6-8)		1250	>10	38.57439	-90.19315	<0.230	<0.230	<0.230	<0.230	**5.5**	<0.230	<0.230
SB-12	(0-2)		1435	>10	38.57426	-90.19333	NA	NA	NA	NA	NA	NA	NA
SB-13	(4-6)		1505	<1	38.57414	-90.19354	<0.110	<0.110	<0.110	<0.110	**0.7**	<0.110	<0.110
SB-14	(2-4)	02/15/05	0940	<1	38.57457	-90.19392	NA	NA	NA	NA	NA	NA	NA
SB-15	(6-8)		0930	<1	38.57474	-90.19361	NA	NA	NA	NA	NA	NA	NA
SB-16	(0-2)		0915	<1	38.57487	-90.19344	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-17	(2-4)		0905	<1	38.57516	-90.19301	NA	NA	NA	NA	NA	NA	NA
SB-18	(8-10)		1030	<1	38.57382	-90.19272	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
SB-19	(0-2)		1235	<1	38.57494	-90.19287	<0.021	<0.021	<0.021	<0.021	**0.22**	<0.021	<0.021
IMP1-1A	(2-4)	02/14/05	1310	>10	38.57438	-90.19267	<0.460	<0.460	<0.460	<0.460	**2,400.00**	<0.460	<0.460
IMP1-1	No information provided, other locations from previous subsurface investigation				38.57438	-90.19267	No information provided, other locations from previous subsurface investigation						
IMP1-2					38.57421	-90.19276							
IMP1-3					38.57410	-90.19255							
IMP1-4					38.57408	-90.19299							
IMP1-5					38.57389	-90.19299							
IMP2-1					38.57399	-90.19340							
IMP2-2					38.57381	-90.19324							
IMP2-3					38.57371	-90.19315							
Drain-1					38.57360	-90.19308							
Drain-2					38.57349	-90.19296							
Drain-3					38.57333	-90.19287							

PCB Cleanup Standard (low occupancy areas) by 40 CFR 761 Subpart N <25 ppm

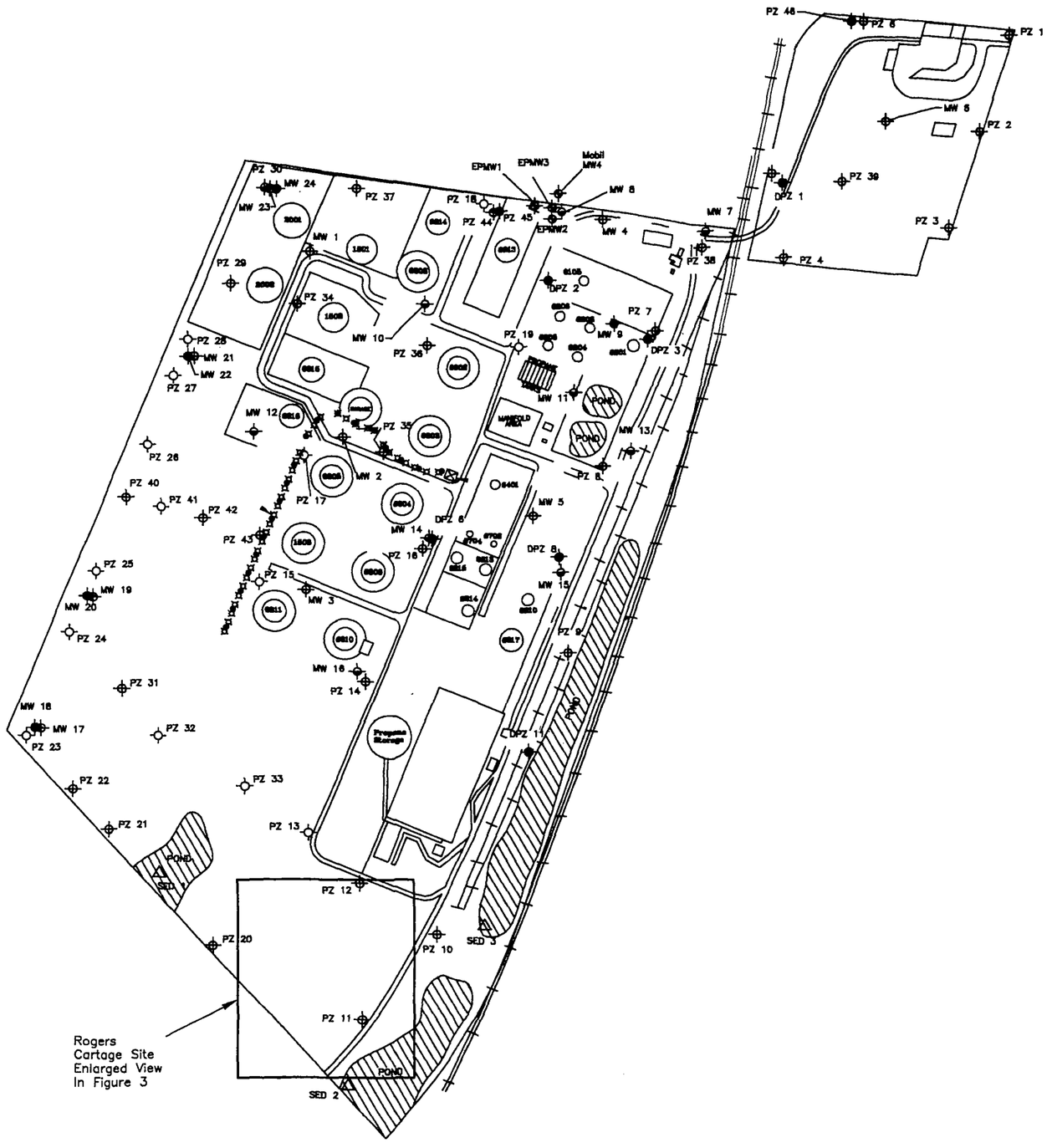
NA = Not Analyzed at Laboratory

Shading indicates analyte exceeded cleanup objectives.



USGS
CAHOKIA QUADRANGLE
ILLINOIS–MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)
38090–E2–TF–024
1993

SITE LOCATION AND TOPOGRAPHY MAP ConocoPhillips 3300 Mississippi Avenue Cahokia, Illinois	JOB NUMBER: 30.75118.0504		SCALE: 1"=2000'	ATC ASSOCIATES INC
	BY: ARK	DATE: 3/30/05	Figure 1	



EXPLANATION

- MONITORING WELL LOCATION (BY OTHERS)
- DPZ 6 DEEP MONITORING WELL LOCATION AND DESIGNATION
- PZ 6 SHALLOW MONITORING WELL LOCATION AND DESIGNATION
- MW 7 SHALLOW AND DEEP MONITORING WELL LOCATION AND IDENTIFICATION (COMPLETED IN BOTH ZONES)
- DESTROYED WELL
- SVE WELL LOCATION
- AIR SPARGE WELL LOCATION
- SED 3 SEDIMENT SAMPLE LOCATION AND IDENTIFICATION

N

600 0 300 600

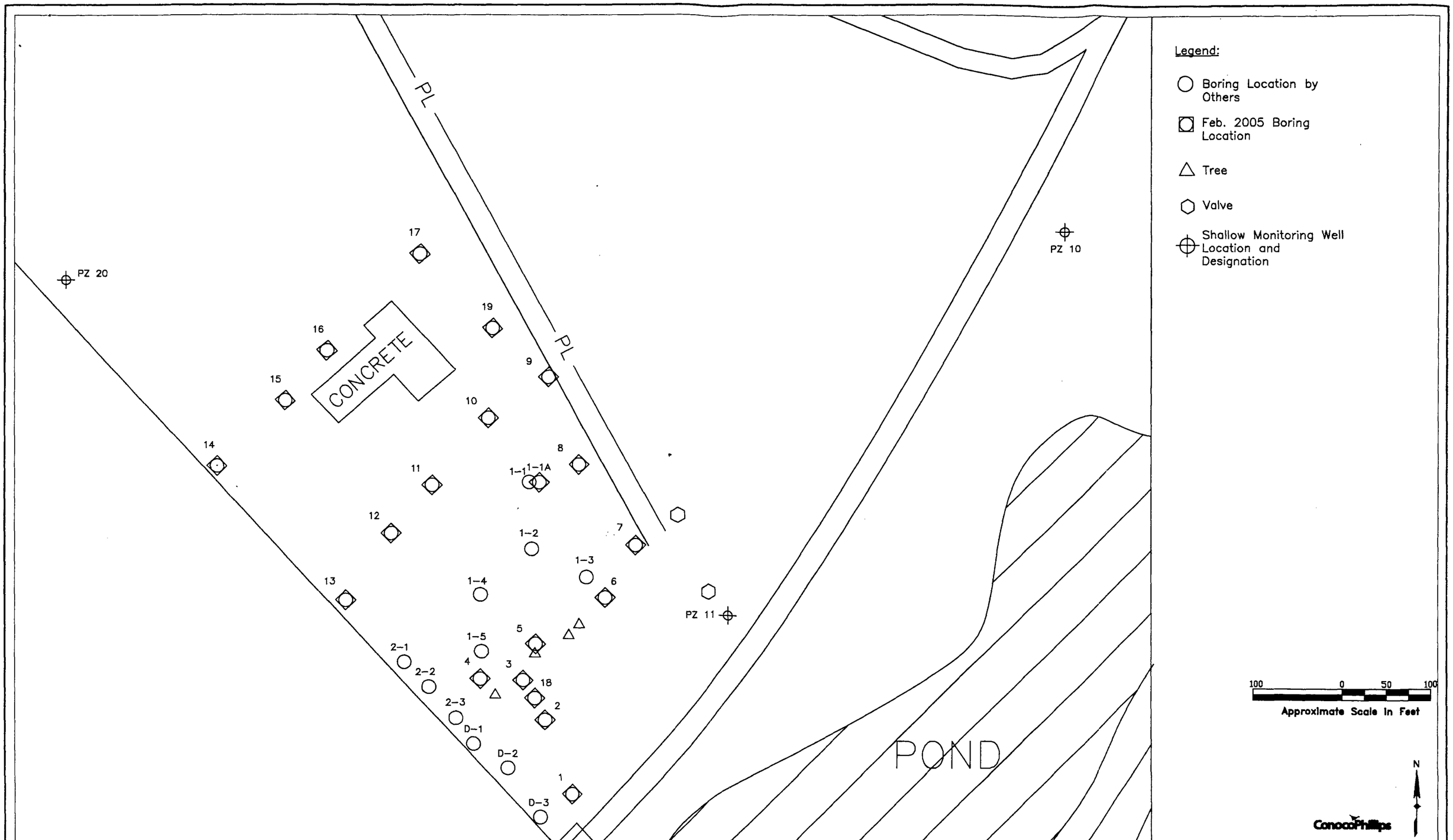
Approximate Scale in Feet

ConocoPhillips

TERMINAL BASE MAP

Conoco Phillips–East St. Louis Terminal
3300 Mississippi Avenue Cahokia, Illinois

JOB NO. 30.75118.0504–T1		SCALE: 1"=600'	ATC ASSOCIATES INC.
BY: ARK	DATE: 1/31/05	Figure 2	



Boring Location Map

Rogers Cartage Site
3300 Mississippi Avenue Cahokia, Illinois

JOB NO. 30.75118.0504-T1		SCALE: 1"=100'	ATC ASSOCIATES INC.
BY: ARK	DATE: 1/31/05	Figure 3	

APPENDIX A

Soil Boring Logs

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER IMP1-1A

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS Twin boring of IMP1-1

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
1.8		100	CT 1						Moist, brown silty clay, dry.	
78						CL		(2'-4')	Black staining, sticky material, silty clay, strong odor.	
		100	CT 2			CL				
41									Grey increasing sand, sandy silty clay.	
					5					6.0
									Bottom of borehole at 6.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-1

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
<1		100	CT 1						Soft, unconsolidated sandy silt, brown.	
1.1						ML		(2'-4')		
		100	CT 2						Very moist.	
1.3					5					5.0
									Dry fine grain sand, unconsolidated, tan in color.	
<1		100	CT 3			SP				
<1										
		100	CT 4		10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC.WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-2

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
<1		100	CT 1						Firm, brown silty clay, moist.	
1.1									Increased sand.	
		66	CT 2							
1.1					5	CL		(4'-6')		
1.5		100	CT 3						Saturated, brown silty sandy clay, soft.	
1.1										9.0
		100	CT 4			SP			Fine grain sand, soft, unconsolidated, moist.	10.0
					10				Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-3

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
1.3		66	CT 1						Greyish-brown, sandy silty clay, moist, stiff.	
1.8		100	CT 2							
2.0					5	CL				
2.7		100	CT 3						Very moist.	
2.0								8'-10'		
		100	CT 4							9.0
						SP			Unconsolidated fine grain sand, moist, tan in color.	
					10				Black sand.	10.0
									Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-4

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
2.1		50	CT 1						Brown, stiff, moist silty clay.	
2.1		100	CT 2			CL			Sandy clay.	
1.5					5					
<1		100	CT 3						Black, sandy clay, strong odor.	
1.5						SM		(8'-10')	Black silty sand, strong odor, saturated.	8.0
		100	CT 4		10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-5

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
<1		100	CT 1						Moist, stiff brown silty clay.	
<1										
		100	CT 2			CL				
<1					5					
										6.0
<1		100	CT 3					(6'-8')	Black, saturated, soft, strong odor, fine grain sand.	
<1						SP				
		100	CT 4		10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-6

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
<1		100	CT 1						Brown silty clay, moist. Increased sand to 9 feet.	
<1										
		100	CT 2							
<1					5	CL		(4'-6')		
<1		100	CT 3							
<1										
										9.0
		100	CT 4			SP			Fine grain sand, grey, saturated.	
					10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-7

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.6		100	CT 1					(0-2')	Brown, firm moist silty clay.	
4.5						CL				
		66	CT 2							
4.1					5					5.0
									Brown, saturated, sandy silt, soft.	
3.5		100	CT 3			ML				
										8.0
4.1									Brown, unconsolidated, fine grain sand, soft.	
		100	CT 4			SP				
					10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-8

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
5.2		66	CT 1						Brown, moist, silty clay.	
5.1		100	CT 2			CL				4.0
5.6								(4'-6')	Saturated, black, strong odor, sandy silt.	
					5					
2.4		100	CT 3			ML			Grey, saturated, grey sandy silt.	
2.7										
		100	CT 4		10					10.0
									Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-9

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
8.6		100	CT 1						Brownish-grey, moist, silty clay, firm.	
2.8								(2'-4')		
		100	CT 2							
<1						CL			Very moist, brown, some sand and silt (sandy clay), soft.	
					5					
<1		100	CT 3							
<1									▽	
									Grey clay, saturated, soft.	9.0
		100	CT 4			SP			Fine grain sand, brown, saturated, unconsolidated, soft.	
					10					10.0
									Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-10

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
1		100	CT 1						Brown, firm, moist silty clay.	
2		100	CT 2						Brown, moist, silty sandy clay, firm.	
3					5	CL		(4'-6')	Moist, brown to black, with organic debris and pebbles, silty clay, soft.	
2		66	CT 3							
3		100	CT 4		10	SP			Saturated, black fine grain sand, with few pebbles, soft.	8.0
									Bottom of borehole at 10.0 feet.	10.0

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-11

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
2.7		100	CT 1						Brown, moist, firm, sandy clay.	
2.7										
		66	CT 2							
4.1					5	CL			Moist, dark brown to black sandy clay.	
7.5		33	CT 3					(6'-8')	Saturated, black sandy clay.	
									Nothing recovered after 7.5 feet.	
		0	CT 4		10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-12

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3		33	CT 1					(0-2')	Brown, moist sandy silt.	
---						ML				
		0	CT 2		5					

										6.0
<1		100	CT 3						*Grey, sandy silty clay, saturated, unconsolidated, soft.*	
						CL				
<1										
		100	CT 4		10					10.0
									Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-13

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
<1		100	CT 1						Brown, very stiff, moist, silty clay.	
1.1										
		100	CT 2							
1.2								(4'-6')		
					5	CL			Saturated, brown, sandy silty clay.	
1.1		66	CT 3							
<1										
		100	CT 4						Saturated, greyish-brown, increasingly sandy, sandy clay. Noticed brownish oil, strong smell.	
					10					10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-14

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/14/05
DATE COMPLETED 2/14/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
5.9		100	CT 1			CL			Brown silty clay, moist.	
										1.0
									Unconsolidated, silty sand.	
1.6								(2'-4')		
		100	CT 2							
13.0					5					
						SM				
8.0		100	CT 3							
									Saturated, silty sand.	
1.6										
		100	CT 4							
					10					10.0
									Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-15

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
4.5		100	CT 1			CL			Brown, moist, silty clay.	1.0
4.3		100	CT 2						Moist, silty sand, brown.	
5.3					5	SM				
1.1		100	CT 3					(6'-8')		
4.5		100	CT 4		10				Saturated, brown, silty sand.	10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-16

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.1		100	CT 1					(0-2')	Gravel.	1.0
5.8						CL			Brown, moist, silty clay.	3.0
4.9		100	CT 2		5	SP			Fine grain, dry, unconsolidated sand.	8.0
4.2		66	CT 3							
3.6		50	CT 4		10	ML			Saturated, sandy silt.	10.0
									Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-17

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.2		100	CT 1			CL		(2'-4')	Moist, firm, silty sand.	
<1		100	CT 2							
4.1					5					5.0
									Soft, saturated, sandy silt.	
1.8		100	CT 3			ML				
2.8										9.0
		100	CT 4			SP			Fine grain sand, brown, unconsolidated.	10.0
					10				Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-18

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ----
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
4.7		100	CT 1			CL			Brown, moist, firm, silty clay.	1.0
5.8		100	CT 2			ML			Brown, moist, soft, sandy silt.	
4.4					5					
6.3		66	CT 3							8.0
<1		100	CT 4		10	SP		(8'-10')	Saturated, brown, soft, fine grain sand.	10.0
									Bottom of borehole at 10.0 feet.	

ATC ASSOCIATES INC.
8233 Brentwood Industrial Drive
St. Louis, Missouri 63144
314-644-2500
Fax 314-644-4838

BORING NUMBER SB-19

PROJECT NUMBER 30.75118.0504
PROJECT NAME East St. Louis Terminal
LOCATION 3300 Mississippi Avenue, Cahokia, Illinois
DRILLING METHOD Direct Push
SAMPLING METHOD Continuous
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY S. Rucknagel
REMARKS

DATE STARTED 2/15/05
DATE COMPLETED 2/15/05
CASING TYPE/DIAMETER ----
SCREEN TYPE/SLOT ----
GRAVEL PACK TYPE ----
GROUT TYPE/QUANTITY ----
DEPTH TO WATER
GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (%)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	COMMENTS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.8			CT 1			CL		(0-2')	Brown, moist, silty clay.	1.0
2.6			CT 2			ML			Brown, moist, sandy silt.	4.5
3.8					5	SP			Brown, dry, fine grain sand.	7.0
2.6			CT 3							
2.1			CT 4			ML			Saturated, brown sandy silt.	10.0
					10				Bottom of borehole at 10.0 feet.	

BORING/WELL CONSTRUCTION FEB B-LOGS.GPJ ATC WELL.GDT 3/31/05

APPENDIX B

Laboratory Analytical Reports – Soil

SEVERN TRENT STL

ANALYTICAL REPORT

Job Number: 400-202.1

Job Description: COP-ESTL Cahokia, IL

For:

ATC Associates, Inc.
8233 Brentwood Industrial Drive
St Louis, MO 63144

Attention: Mr. Patrick King

Marty Edwards
Project Manager I
medwards@stl-inc.com

03/17/2005

SEVERN TRENT STL

METHOD SUMMARY

Client: ATC Associates, Inc.

Job Number: 400-202.1

Job Description: COP-ESTL Cahokia, IL

Description	Method	Preparation Method
Matrix: Solid		
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846 8082	
Ultrasonic Extraction		SW846 3550B
Percent Moisture	EPA 160.3	

REFERENCES

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SEVERN TRENT STL

SAMPLE SUMMARY

Client: ATC Associates, Inc.

Job Number: 400-202.1

Job Description: COP-ESTL Cahokia, IL

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-202-1	SB-9 (2-4')	Solid	02/14/2005 1150	02/18/2005 0837
400-202-2	SB-11 (6-8')	Solid	02/14/2005 1250	02/18/2005 0837
400-202-3	SB-13 (4-6')	Solid	02/14/2005 1505	02/18/2005 0837
400-202-4	IMP1-1 (2-4')	Solid	02/14/2005 1310	02/18/2005 0837
400-202-5	SB-1 (2-4')	Solid	02/14/2005 1520	02/18/2005 0837
400-202-6	SB-4 (8-10')	Solid	02/14/2005 1610	02/18/2005 0837
400-202-7	SB-5 (6-8')	Solid	02/14/2005 1635	02/18/2005 0837
400-202-8	SB-6 (4-6')	Solid	02/14/2005 1645	02/18/2005 0837
400-202-9	SB-8 (4-6')	Solid	02/15/2005 0845	02/18/2005 0837
400-202-10	SB-16 (0-2')	Solid	02/15/2005 0915	02/18/2005 0837
400-202-11	SB-18 (8-10')	Solid	02/15/2005 1030	02/18/2005 0837
400-202-12	SB-19 (0-2')	Solid	02/15/2005 1235	02/18/2005 0837

SAMPLE RESULTS

Client: ATC Associates, Inc. Job Number: 400-202.1

Client Sample ID: **SB-9 (2-4')**

Lab Sample ID: 400-202-1 Date Sampled: 02/14/2005 1150
Client Matrix: Solid % Moisture: 24.0 Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 400-1902 Instrument ID: NO EQUIPMENT
Preparation: 3550B Prep Batch: 400-818 Lab File ID: N/A
Dilution: 5.0 Initial Weight/Volume: 30.00 g
Date Analyzed: 02/26/2005 0743 Final Weight/Volume: 10 mL
Date Prepared: 02/21/2005 0910 Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<110		110
PCB-1221	<110		110
PCB-1232	<110		110
PCB-1242	<110		110
PCB-1248	2200		110
PCB-1254	<110		110
PCB-1260	<110		110

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	80		57 - 131
Tetrachloro-m-xylene	75		53 - 123

Client: ATC Associates, Inc. Job Number: 400-202.1

Client Sample ID: **SB-11 (6-8')**

Lab Sample ID: 400-202-2 Date Sampled: 02/14/2005 1250
Client Matrix: Solid % Moisture: 25.0 Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 400-1902 Instrument ID: NO EQUIPMENT
Preparation: 3550B Prep Batch: 400-818 Lab File ID: N/A
Dilution: 10 Initial Weight/Volume: 30.11 g
Date Analyzed: 02/26/2005 0801 Final Weight/Volume: 10 mL
Date Prepared: 02/21/2005 0910 Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<230		230
PCB-1221	<230		230
PCB-1232	<230		230
PCB-1242	<230		230
PCB-1248	5500		230
PCB-1254	<230		230
PCB-1260	<230		230

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	80		57 - 131
Tetrachloro-m-xylene	100		53 - 123

Client: ATC Associates, Inc.

Job Number: 400-202.1

Client Sample ID: **SB-13 (4-6')**

Lab Sample ID: 400-202-3
Client Matrix: Solid % Moisture: 24.0

Date Sampled: 02/14/2005 1505
Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 02/26/2005 0819
Date Prepared: 02/21/2005 0910

Analysis Batch: 400-1902
Prep Batch: 400-818

Instrument ID: NO EQUIPMENT
Lab File ID: N/A
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<110		110
PCB-1221	<110		110
PCB-1232	<110		110
PCB-1242	<110		110
PCB-1248	700		110
PCB-1254	<110		110
PCB-1260	<110		110

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75		57 - 131
Tetrachloro-m-xylene	80		53 - 123

Client: ATC Associates, Inc.

Job Number: 400-202.1

Client Sample ID: **IMP1-1 (2-4')**

Lab Sample ID: 400-202-4
Client Matrix: Solid % Moisture: 27.0

Date Sampled: 02/14/2005 1310
Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 20
Date Analyzed: 02/22/2005 1658
Date Prepared: 02/21/2005 0910

Analysis Batch: 400-1902
Prep Batch: 400-818

Instrument ID: NO EQUIPMENT
Lab File ID: N/A
Initial Weight/Volume: 30.35 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<460		460
PCB-1221	<460		460
PCB-1232	<460		460
PCB-1242	<460		460
PCB-1248	2400000		460
PCB-1254	<460		460
PCB-1260	<460		460

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	240	*	57 - 131
Tetrachloro-m-xylene	1440	*	53 - 123

Client: ATC Associates, Inc.

Job Number: 400-202.1

Client Sample ID: **SB-1 (2-4')**

Lab Sample ID: 400-202-5
Client Matrix: Solid % Moisture: 19.0

Date Sampled: 02/14/2005 1520
Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 02/22/2005 1716
Date Prepared: 02/21/2005 0910

Analysis Batch: 400-1902
Prep Batch: 400-818

Instrument ID: NO EQUIPMENT
Lab File ID: N/A
Initial Weight/Volume: 30.19 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<21		21
PCB-1221	<21		21
PCB-1232	<21		21
PCB-1242	<21		21
PCB-1248	<21		21
PCB-1254	<21		21
PCB-1260	<21		21

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	102		57 - 131
Tetrachloro-m-xylene	80		53 - 123

Client: ATC Associates, Inc.

Job Number: 400-202.1

Client Sample ID: **SB-4 (8-10')**

Lab Sample ID: 400-202-6
Client Matrix: Solid % Moisture: 26.0

Date Sampled: 02/14/2005 1610
Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 02/22/2005 1734
Date Prepared: 02/21/2005 0910

Analysis Batch: 400-1902
Prep Batch: 400-818

Instrument ID: NO EQUIPMENT
Lab File ID: N/A
Initial Weight/Volume: 30.10 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<23		23
PCB-1221	<23		23
PCB-1232	<23		23
PCB-1242	<23		23
PCB-1248	<23		23
PCB-1254	<23		23
PCB-1260	<23		23

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	85		57 - 131
Tetrachloro-m-xylene	89		53 - 123

Client: ATC Associates, Inc. Job Number: 400-202.1

Client Sample ID: **SB-5 (6-8')**

Lab Sample ID: 400-202-7 Date Sampled: 02/14/2005 1635
Client Matrix: Solid % Moisture: 28.0 Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 400-1902 Instrument ID: NO EQUIPMENT
Preparation: 3550B Prep Batch: 400-818 Lab File ID: N/A
Dilution: 20 Initial Weight/Volume: 30.16 g
Date Analyzed: 03/01/2005 1706 Final Weight/Volume: 10 mL
Date Prepared: 02/21/2005 0910 Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<470		470
PCB-1221	<470		470
PCB-1232	<470		470
PCB-1242	<470		470
PCB-1248	47000		470
PCB-1254	<470		470
PCB-1260	<470		470

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	60		57 - 131
Tetrachloro-m-xylene	100		53 - 123

Analytical Data

Client: ATC Associates, Inc. Job Number: 400-202.1

Client Sample ID: **SB-6 (4-6')**

Lab Sample ID: 400-202-8 Date Sampled: 02/14/2005 1645
Client Matrix: Solid % Moisture: 24.0 Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 400-1902 Instrument ID: NO EQUIPMENT
Preparation: 3550B Prep Batch: 400-818 Lab File ID: N/A
Dilution: 5.0 Initial Weight/Volume: 30.34 g
Date Analyzed: 02/26/2005 0912 Final Weight/Volume: 10 mL
Date Prepared: 02/21/2005 0910 Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<110		110
PCB-1221	<110		110
PCB-1232	<110		110
PCB-1242	<110		110
PCB-1248	1700		110
PCB-1254	<110		110
PCB-1260	<110		110

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	85		57 - 131
Tetrachloro-m-xylene	85		53 - 123

Client: ATC Associates, Inc.

Job Number: 400-202.1

Client Sample ID: **SB-8 (4-6')**

Lab Sample ID: 400-202-9
Client Matrix: Solid % Moisture: 31.0

Date Sampled: 02/15/2005 0845
Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 02/22/2005 1845
Date Prepared: 02/21/2005 0910

Analysis Batch: 400-1902
Prep Batch: 400-818

Instrument ID: NO EQUIPMENT
Lab File ID: N/A
Initial Weight/Volume: 30.31 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<24		24
PCB-1221	<24		24
PCB-1232	<24		24
PCB-1242	<24		24
PCB-1248	<24		24
PCB-1254	<24		24
PCB-1260	<24		24

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	90		57 - 131
Tetrachloro-m-xylene	80		53 - 123

Client: ATC Associates, Inc.

Job Number: 400-202.1

Client Sample ID: **SB-16 (0-2')**

Lab Sample ID: 400-202-10
Client Matrix: Solid % Moisture: 17.0

Date Sampled: 02/15/2005 0915
Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 02/22/2005 1902
Date Prepared: 02/21/2005 0910

Analysis Batch: 400-1902
Prep Batch: 400-818

Instrument ID: NO EQUIPMENT
Lab File ID: N/A
Initial Weight/Volume: 30.26 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<20		20
PCB-1221	<20		20
PCB-1232	<20		20
PCB-1242	<20		20
PCB-1248	<20		20
PCB-1254	<20		20
PCB-1260	<20		20

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	126		57 - 131
Tetrachloro-m-xylene	80		53 - 123

Client: ATC Associates, Inc. Job Number: 400-202.1

Client Sample ID: SB-18 (8-10')

Lab Sample ID: 400-202-11 Date Sampled: 02/15/2005 1030
Client Matrix: Solid % Moisture: 23.0 Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 400-1902 Instrument ID: NO EQUIPMENT
Preparation: 3550B Prep Batch: 400-818 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 30.52 g
Date Analyzed: 02/22/2005 1920 Final Weight/Volume: 10 mL
Date Prepared: 02/21/2005 0910 Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<22		22
PCB-1221	<22		22
PCB-1232	<22		22
PCB-1242	<22		22
PCB-1248	<22		22
PCB-1254	<22		22
PCB-1260	<22		22

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		57 - 131
Tetrachloro-m-xylene	90		53 - 123

Client: ATC Associates, Inc. Job Number: 400-202.1

Client Sample ID: **SB-19 (0-2')**

Lab Sample ID: 400-202-12 Date Sampled: 02/15/2005 1235
Client Matrix: Solid % Moisture: 20.0 Date Received: 02/18/2005 0837

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 400-1902 Instrument ID: NO EQUIPMENT
Preparation: 3550B Prep Batch: 400-818 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 30.36 g
Date Analyzed: 02/22/2005 1938 Final Weight/Volume: 10 mL
Date Prepared: 02/21/2005 0910 Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/Kg)	Qualifier	RL
PCB-1016	<21		21
PCB-1221	<21		21
PCB-1232	<21		21
PCB-1242	<21		21
PCB-1248	220		21
PCB-1254	<21		21
PCB-1260	<21		21

Surrogate	*%Rec*	*Qualifier*	*Acceptance Limits*
DCB Decachlorobiphenyl	84		57 - 131
Tetrachloro-m-xylene	82		53 - 123

QUALITY CONTROL RESULTS

Client: ATC Associates, Inc.

Job Number: 400-202.1

Job Description: COP-ESTL Cahokia, IL

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 400-818				
LCS 400-818/14	Lab Control Spike	Solid	3550B	
MB 400-818/13	Method Blank	Solid	3550B	
400-202-A-1-B	SB-9 (2-4')	Solid	3550B	
400-202-A-1-B MS	Matrix Spike	Solid	3550B	
400-202-A-1-B MSD	Matrix Spike Duplicate	Solid	3550B	
400-202-A-2-B	SB-11 (6-8')	Solid	3550B	
400-202-A-3-B	SB-13 (4-6')	Solid	3550B	
400-202-A-4-B	IMP1-1 (2-4')	Solid	3550B	
400-202-A-5-B	SB-1 (2-4')	Solid	3550B	
400-202-A-6-B	SB-4 (8-10')	Solid	3550B	
400-202-A-7-B	SB-5 (6-8')	Solid	3550B	
400-202-A-8-B	SB-6 (4-6')	Solid	3550B	
400-202-A-9-B	SB-8 (4-6')	Solid	3550B	
400-202-A-10-B	SB-16 (0-2')	Solid	3550B	
400-202-A-11-B	SB-18 (8-10')	Solid	3550B	
400-202-A-12-B	SB-19 (0-2')	Solid	3550B	
Analysis Batch:400-1902				
LCS 400-818/14	Lab Control Spike	Solid	8082	400-818
MB 400-818/13	Method Blank	Solid	8082	400-818
400-202-A-1-B	SB-9 (2-4')	Solid	8082	400-818
400-202-A-1-B MS	Matrix Spike	Solid	8082	400-818
400-202-A-1-B MSD	Matrix Spike Duplicate	Solid	8082	400-818
400-202-A-2-B	SB-11 (6-8')	Solid	8082	400-818
400-202-A-3-B	SB-13 (4-6')	Solid	8082	400-818
400-202-A-4-B	IMP1-1 (2-4')	Solid	8082	400-818
400-202-A-5-B	SB-1 (2-4')	Solid	8082	400-818
400-202-A-6-B	SB-4 (8-10')	Solid	8082	400-818
400-202-A-7-B	SB-5 (6-8')	Solid	8082	400-818
400-202-A-8-B	SB-6 (4-6')	Solid	8082	400-818
400-202-A-9-B	SB-8 (4-6')	Solid	8082	400-818
400-202-A-10-B	SB-16 (0-2')	Solid	8082	400-818
400-202-A-11-B	SB-18 (8-10')	Solid	8082	400-818
400-202-A-12-B	SB-19 (0-2')	Solid	8082	400-818

Client: ATC Associates, Inc. Job Number: 400-202.1 Job Description: COP-ESTL Cahokia, IL

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID	Lab Sample ID	(DCB 1) (%Rec)	(TCX 1) (%Rec)
IMP1-1 (2-4')	400-202-4	240 *	1440 *
LCS	LCS 400-818/14	107	103
MB	MB 400-818/13	102	102
SB-1 (2-4')	400-202-5	102	80
SB-11 (6-8')	400-202-2	80	100
SB-13 (4-6')	400-202-3	75	80
SB-16 (0-2')	400-202-10	126	80
SB-18 (8-10')	400-202-11	93	90
SB-19 (0-2')	400-202-12	84	82
SB-4 (8-10')	400-202-6	85	89
SB-5 (6-8')	400-202-7	60	100
SB-6 (4-6')	400-202-8	85	85
SB-8 (4-6')	400-202-9	90	80
SB-9 (2-4')	400-202-1	80	75
SB-9 (2-4')-MS	400-202-1-MS	98	90
SB-9 (2-4')-MSD	400-202-1-MSD	98	80

Surrogate		Acceptance Limits
(DCB)	DCB Decachlorobiphenyl	57 - 131
(TCX)	Tetrachloro-m-xylene	53 - 123

Client: ATC Associates, Inc. Job Number: 400-202.1

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method Blank - Batch: 400-818

Lab ID: MB 400-818/13 Date Analyzed: 02/22/2005 1455 Dilution: 1.0
Matrix: Solid Units: ug/Kg

Analyte	Result	Qualifier	RL
PCB-1016	<17		17
PCB-1221	<17		17
PCB-1232	<17		17
PCB-1242	<17		17
PCB-1248	<17		17
PCB-1254	<17		17
PCB-1260	<17		17

Laboratory Control Sample - Batch: 400-818

Lab ID: LCS 400-818/14 Date Analyzed: 02/22/2005 1512 Dilution: 1.0
Matrix: Solid Units: ug/Kg

Analyte	Spike Amount	Result	% Rec.	Recovery Limits	Qualifier
PCB-1016	333	360	109	66 - 120	
PCB-1260	333	360	108	67 - 131	

Matrix Spike/Spike Duplicate - Batch: 400-818

MS Lab ID: 400-202-A-1-B MS Date Analyzed: 02/22/2005 1530 Dilution: 1.0
MSD Lab ID: 400-202-A-1-B MSD Date Analyzed: 02/22/2005 1548 Dilution: 1.0
Matrix: Solid Units: ug/Kg

Analyte	% Recovery MS	% Recovery MSD	% Recovery Limits	RPD	RPD Limit	Qualifier
PCB-1016	178	306	51 - 123	53	10	* *
PCB-1260	130	192	47 - 130	39	18	* *

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

DATA REPORTING QUALIFIERS

Client: ATC Associates, Inc. Job Number: 400-202.1

Lab Section	Qualifier	Description
GC Semi VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

Chain of Custody Record

400-207 ~~400-185~~

Bill to: Eric Petersen ConocoPhillips

SEVERN TRENT SERVICES — Severn Trent Laboratories, In

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
ATC Associates Inc	Pat King	2-16-05	148610
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
8233 Brentwood Ind. Dr	314-644-2500/314-644-4838		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
St. Louis MO 63144	Eric Petersen		
Project Name and Location (State)	**Carrier/Waybill Number**		
COP-ESTL, Cahokia, IL			
Contract/Purchase Order/Quote No.			
4679ATC001 (ConocoPhillips Work Order			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: PCBs (8082)	Special Instructions/ Conditions of Receipt
SB-9 2-4'	2-14-05	1150				X	X						X	
SB-11 6-8'	2-14-05	1250				X	X						X	
SB-13 4-6'	2-14-05	1505				X	X						X	
IMP1-1 2-4'	2-14-05	1310				X	X						X	
SB-1 2-4'	2-14-05	1520				X	X						X	
SB-4 8-10'	2-14-05	1610				X	X						X	
SB-5 6-8'	2-14-05	1635				X	X						X	
SB-6 4-6'	2-14-05	1645				X	X						X	
SB-8 4-6'	2-15-05	0845				X	X						X	
SB-16 0-2'	2-15-05	0915				X	X						X	
SB-18 8-10'	2-15-05	1030				X	X						X	
SB-19 0-2'	2-15-05	1235				X	X						X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Matt J Puchnagel	2-16-05	1600	1. Received By: FEDEX	2-16-05	1600
2. Relinquished By:			2. Received By: Raven Hedanie	02-17-05	0915
3. Relinquished By:			3. Received By:		

Comments

3.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/05

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/05

Arkansas Department of Pollution Control and Ecology, (88-0689) (Environmental), expires 07/01/05

California Department of Health Services, ELAP Laboratory ID No. 2510 (Hazardous Waste and Wastewater), expires 03/31/06

Connecticut Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/05

Florida DOH, NELAP Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/05

Florida DEP/DOH CompQAP # 980156

Illinois Environmental Laboratory Accreditation Program (ELAP), NELAP Laboratory ID No. 200041 (Wastewater and Hazardous Waste), expires 10/09/04

Iowa Department of Natural Resources, Laboratory ID No. 367 (Wastewater, UST, Solid Waste, & Contaminated Sites), expires 08/01/04

Kansas Department of Health & Environment, NELAP Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/04

Kentucky NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/04

Kentucky Petroleum Storage Tank Env Assurance Fund, Laboratory ID No. 0053 (UST), expires 11/7/05.

Louisiana DEQ, LELAP, NELAP Laboratory ID No. 02075, Agency Interest ID 30748. Environmental, expires 6/30/05

Maryland DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 12/31/04

Massachusetts DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/05

Michigan Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/05

New Hampshire DES ELAP, NELAP Laboratory ID No. 250502 (Drinking Water & Wastewater), expires 08/16/05

New Jersey DEP&E, NELAP Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/05.

North Carolina DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/04.

North Dakota DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Arizona), expires 06/30/04

Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/05

Pennsylvania Department of Environmental Resources, NELAP Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/04

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/05

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/05

West Virginia DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/05.

EPA ICR (Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031

NFESC (Naval Facilities Engineering Services Center), expires September 7, 2004.

USACE (United States Army Corps. of Engineers), MRD, expires July 16, 2005.

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 9/29/04

Chain of Custody Record

400-20[illegible] ~~400-185~~

Bill to: Eric Petersen ConocoPhillips

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
ATC Associates Inc	Pat King	2-16-05	148610
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
9233 Brentwood Ind. Dr	314-644-2500 / 314-644-4838		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
St. Louis MO 63144	Eric Petersen		
Project Name and Location (State)	**Carrier/Waybill Number**		
COP - ESTL, Cahokia, IL			
Contract/Purchase Order/Quote No.			
4679ATC001 (ConocoPhillips Work Order			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: PCB_s (8082)	Special Instructions/ Conditions of Receipt
SB-9 2-4'	2-14-05	1150				X	X						X	
SB-11 6-8'	2-14-05	1250				X	X						X	
SB-13 4-6'	2-14-05	1505				X	X						X	
IMP1-1 2-4'	2-14-05	1310				X	X						X	
SB-1 2-4'	2-14-05	1520				X	X						X	
SB-4 8-10'	2-14-05	1610				X	X						X	
SB-5 6-8'	2-14-05	1635				X	X						X	
SB-6 4-6'	2-14-05	1645				X	X						X	
SB-8 4-6'	2-15-05	0845				X	X						X	
SB-16 0-2'	2-15-05	0915				X	X						X	
SB-18 8-10'	2-15-05	1030				X	X						X	
SB-19 0-2'	2-15-05	1235				X	X						X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Scott J Puchnagel	2-16-05	1600	FED EX	2-16-05	1600
2.				Raven Hedanie	02-17-05	0915
3.						

Comments

3.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

APPENDIX C

Site Safety Plan

(ATC maintains a copy of the Site specific Health and Safety Plan. Arrangements for ConocoPhillips to view this plan can be made by contacting Pat King.)